Colorado

- Population 5.7 million
- 103,641 square miles
- 64 Counties
- 51 Local Health Department Agencies
- Urban, Suburban, Rural, Frontier
Colorado IIS*

- Total patients: 6.1 million
- Total immunizations: 68.3 million
- Active on-line users: 6,305

*as of 11/30/19
Background

- Colorado continues to rank at the bottom of states for immunization coverage rates of kindergarten children
- Legislative attempts to strengthen exemptions in Colorado have not been successful
- Clusters of children who are unimmunized or under-immunized are at risk of a vaccine-preventable disease
Challenges

- **Exemptions**
  - CO Rate 4.9% in 2018-2019, 4.7 in 2017-2018
  - US National Rate 2.5%

- **Kindergarten Coverage Rates Low 2018-2019**
  - MMR (2 doses)
    - CO Rate 87.4%
    - US Rate 94.7%
  - DTaP (5 doses)
    - CO Rate 90.3%
    - US Rate 94.9%
  - Varicella (2 doses)
    - CO Rate 86.5%
    - US Rate 94.8%
Challenges

• **Access to Vaccination Services**
  - Distance
  - Geography
  - Appointment availability

• **Vaccine Hesitancy**
  - Parent surveys in 2018-2019
    - About 2/3 of parents reported some degree of hesitancy
      - Of these, half plan to immunize on schedule and half do not (skip some, delayed schedule)
    - 2% absolute vaccine refusers

• **Missing Data**
Executive Order B 2019 006 issued 6/13/19

- Governor proclaimed immediate support for programs and policies that will increase the state’s immunization rates and honor the rights of parents

WIG (part of our strategic plan)

- Reverse the downward trend and increase the percent of kindergartners protected against MMR from 87.4% to 90% (1,669 more kids) by June 30, 2020 and increase to 95% by June 30, 2023.
Data Driving Action

• WIG based on school and child care data reported annually by facilities
• CIIS data available and updated daily
• Needed a way to monitor progress towards the goal
  • For our LPHA partners to track targets and progress
  • To report to our leadership and to the Governor monthly
Kindergarten MMR Dashboard

• For each LPHA Partner
  • Identifies current K-aged MMR rate and number of additional kids to get to the 90% goal
  • Contribution to the state 90% goal
  • Listing of schools with low rates within the county
  • Monthly immunization targets
  • Near real-time report card (updated daily) showing progress towards meeting specific immunization goals
  • Data rolled up to a statewide report card
Sample Dashboard

Welcome to the CDPHE Kindergarten MMR Dashboard for Local Public Health Agencies

This tool was developed specifically for you and your county to give a better idea of how you can improve Kindergarten MMR rates. You have been given access only to the specific counties you serve. Please begin by selecting a county below and clicking the arrow button.

[Select County]

Click to Generate Your MMR Fact Sheet

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Based on 2018-19 school data, your county had 350 unvaccinated kindergartners, which represented 5.1% of all unvaccinated kindergartners in the counties with the highest numbers of unvaccinated students. Of the 1669 additional students who need to be brought up to date, 85 were proportionally attributed to County.

<table>
<thead>
<tr>
<th>Date</th>
<th>By all clinics</th>
<th>By clinics (PKA)</th>
<th>Additional students</th>
<th>By Sept 1</th>
<th>By Oct 1</th>
<th>By Nov 1</th>
<th>By Dec 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 1, 2017 - Dec 1, 2018 (Initial)</td>
<td>495</td>
<td>107</td>
<td>27</td>
<td>42</td>
<td>64</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Dec 2, 2018 - Dec 2, 2019 (Follow-up)</td>
<td>474</td>
<td>72</td>
<td>613</td>
<td>154</td>
<td>253</td>
<td>132</td>
<td>66</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>County Year Students (CT2)</th>
<th>County Year Students (CT1)</th>
<th>County Year Students (CT1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec 1, 2017 - Dec 1, 2018 (Initial)</td>
<td>495</td>
<td>107</td>
<td>27</td>
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<td>474</td>
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<td>613</td>
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</tbody>
</table>

How Can County Reach a 90% MMR Coverage Rate?

Based on 2018-19 school survey data, County had a 94.1% MMR kindergarten coverage rate. This coverage rate meets or exceeds the 90% threshold set and you should work to ensure your coverage rate does not decrease. For reference the following chart is provided to explore what would be needed to achieve just a 90% MMR kindergarten coverage rate. Although, we expect your county to be above this threshold in the 2019-20 school year.

Incoming Kindergartners In Schools With High MMR Incomplete Records In Schools

The top 5 schools (or more if there is a tie) with the highest numbers of kindergartners with incomplete records (asking required doses on their certificate of immunization) from the 2018-19 Kindergartners survey account for 46 total students.
Kindergarten MMR Data
County Kindergarten MMR Rate Report Card

County 2019-20 MMR Immunization Goals
92.0% Completed as of September 9, 2019

<table>
<thead>
<tr>
<th></th>
<th>Sept 1 Goal</th>
<th>Oct 1 Goal</th>
<th>Nov 1 Goal</th>
<th>Dec 1 Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6,125</td>
<td>6,299</td>
<td>6,446</td>
<td>6,539</td>
</tr>
</tbody>
</table>

Number of Likely Kindergarten Students Fully Immunized for MMR

<table>
<thead>
<tr>
<th></th>
<th>By Sept 1</th>
<th>By Oct 1</th>
<th>By Nov 1</th>
<th>By Dec 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIIS: Current Year</td>
<td>5,999</td>
<td>6,019</td>
<td>6,019</td>
<td>6,019</td>
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<tr>
<td>(Updates Daily)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIIS: Prior Year</td>
<td>6,104</td>
<td>6,257</td>
<td>6,382</td>
<td>6,454</td>
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<tr>
<td>(Baseline)</td>
<td></td>
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</tbody>
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Kindergarten Students Up-To-Date

- Sept 1 Goal 6,125: 97.9%
- Oct 1 Goal 6,299: 95.6%
- Nov 1 Goal 6,446: 93.4%
- Dec 1 Goal 6,539: 92.0%
Thank You

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Kindergarten MMR
Statewide Dashboard